

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>AUGUST</i>			Year <i>2007</i>				Ship <i>LOUIS ST LAURENT</i>				Cruise ID <i>2007-20</i>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
<i>04</i>			<i>BE</i>	<i>XBT</i>											
<i>04</i>	<i>BL3</i>	<i>0735</i>	<i>BE</i>	<i>ADCP</i>			<i>71 27.97</i>	<i>151 47.79</i>	<i>545</i>						
		<i>0825</i>													
<i>04</i>	<i>BL3</i>	<i>0728</i>	<i>BE</i>	<i>ROS</i>	<i>US/UN</i>	<i>28</i>	<i>71 27.97</i>	<i>151 47.79</i>	<i>545⁺⁹</i>		<i>493-515</i>	<i>23</i>	<i>JE/MD/HY RN</i>	<i>✓✓</i>	
			<i>BO</i>							<i>567⁺¹⁰</i>					
		<i>0822</i>	<i>EN</i>				<i>71 28.24</i>	<i>151 47.52</i>							
<i>04</i>															
<i>04</i>	<i>BL4</i>	<i>1020</i>	<i>BE</i>	<i>ROS</i>	<i>UN</i>	<i>29</i>	<i>71 30.14</i>	<i>151 39.43</i>	<i>993⁺⁹</i>		<i>516-538</i>	<i>23</i>	<i>JE/MD/HY RN</i>	<i>✓</i>	
		<i>1048</i>	<i>BO</i>				<i>71 30.25</i>	<i>151 39.89</i>		<i>1000⁺⁹</i>					
		<i>1113</i>	<i>EN</i>				<i>71 30.29</i>	<i>151 40.31</i>							
<i>04</i>	<i>BL4</i>	<i>1025</i>	<i>BE</i>	<i>ADCP</i>			<i>71 30.15</i>	<i>151 39.53</i>							
		<i>1116</i>	<i>EN</i>												
<i>04</i>	<i>BL4</i>	<i>1043</i>		<i>NET</i>	<i>Net(13)</i>		<i>71°30.29</i>	<i>151°40.53</i>		<i>100</i>					
		<i>1057</i>		<i>NET</i>	<i>Net(14)</i>					<i>100</i>					

Cast type:
BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
DN = down/no stop

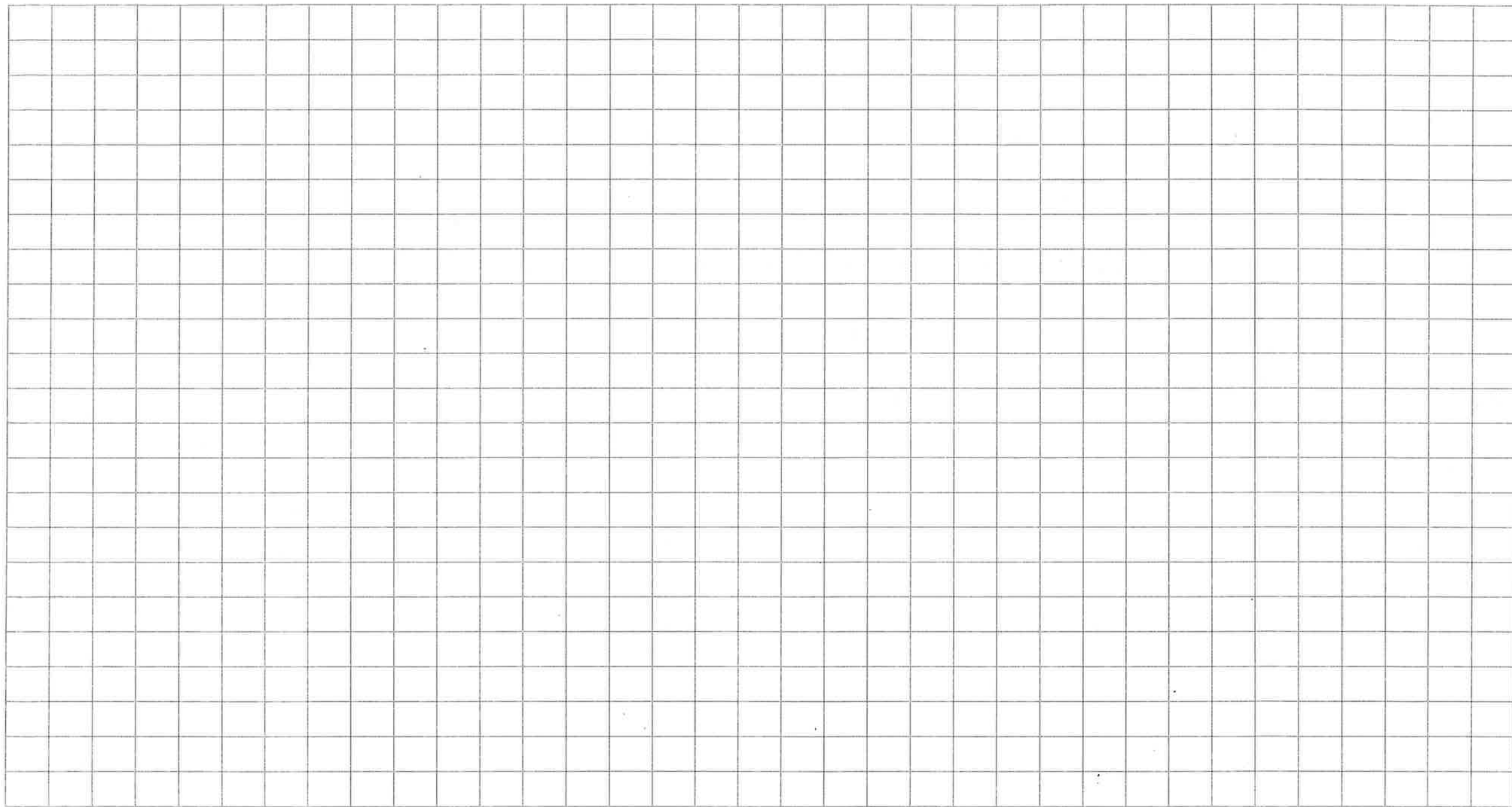
Time Code
BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc

36



DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>AUGUST</i>				Year <i>2007</i>			Ship <i>LOUIS ST LAURENT</i>				Cruise ID <i>2007-20</i>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
<i>04</i>	<i>BL-5</i>		<i>BE</i>	<i>XCP</i>											
			<i>EN</i>												
<i>04</i>	<i>BL-5</i>		<i>BE</i>	<i>XCTD</i>		<i>XCTD-29</i>									
<i>04</i>	<i>BL-6</i>	<i>1312</i>	<i>BE</i>	<i>ROS</i>	<i>UN</i>	<i>30</i>	<i>71 39.44</i>	<i>151 14.05</i>	<i>2008^{±9}</i>		<i>539-562</i>	<i>24</i>	<i>JE/MD/HIV RN</i>	<i>✓</i>	<i>~ 1kt current</i>
		<i>1401</i>	<i>BO</i>				<i>71 39.53</i>	<i>151 15.67</i>		<i>2000^{±11}</i>					<i>drifting shallower -> 285^m</i>
		<i>1442</i>	<i>EN</i>				<i>71 39.39</i>	<i>151 15.58</i>							
<i>04</i>	<i>BL-6</i>	<i>1327</i>	<i>BE</i>	<i>ADCP</i>			<i>71 39.43</i>	<i>151 14.40</i>							<i>pull up sonars @ 1415 =</i>
			<i>EN</i>												<i>drifting into rosette wire</i>
<i>04</i>	<i>BL-6</i>	<i>1331</i>	<i>BE</i>	<i>DRIF</i>			<i>71 39.40</i>	<i>151 14.50</i>	<i>2008^{±9}</i>		<i>221,222,223</i>		<i>HB</i>		
<i>04</i>	<i>BL-7</i>		<i>BE</i>	<i>XCTD</i>		<i>XCTD-30</i>									
<i>04</i>	<i>BL-8</i>	<i>1733</i>	<i>BE</i>	<i>ROS</i>	<i>US</i>	<i>31</i>	<i>71 57.88</i>	<i>150 13.70</i>	<i>2986^{±9}</i>		<i>563-585</i>	<i>23</i>		<i>✓</i>	<i>RNA/DNA/Poc/TSS</i>
		<i>18:00</i>	<i>BO</i>				<i>71° 58.04</i>	<i>150° 14.981</i>							
		<i>18:32</i>	<i>EN</i>				<i>71° 58.110</i>	<i>150° 15.906</i>	<i>2992^{±9}</i>						

Cast type:
BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

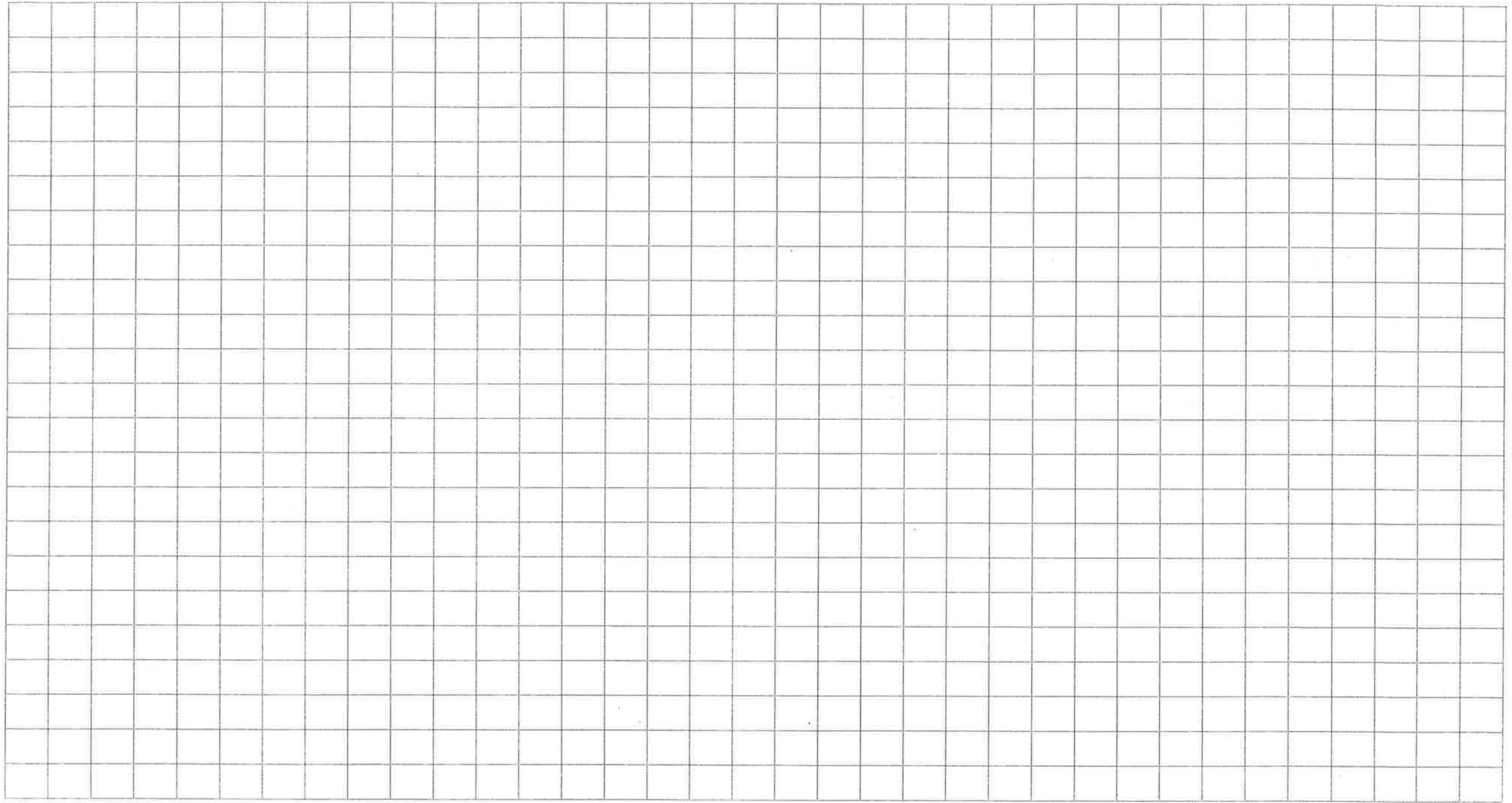
bottle firing method:
US = up/stop
UN = up/no stop
DN = down/no stop

Time Code
BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc



DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month AUGUST				Year 2007			Ship LOUIS ST- LAURENT				Cruise ID 2007-20				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
4	BL-8	1738	BE	ADCP											349.6 heading
			EN				71°59.290	150°19.946							
	BL-8	19=53	BE	ROS	UN	32	71°59.104	150°18.506	3028+9m		586-609			3x	Jelly fish
		20=55	BO				71°59.290	150°19.946						on	station!
		21=55	EN				71°59.284	150°21.617							
	BL-8	2016		Nets		Net(15)	71°59.29	150°19.211		100					
	BL-8	2030		Nets		Net(16)	"	"		100					
	BL-8			XCP											
5	CB-2a	00=57	BE	ROS		33	72°29.959'N	150°27.01'W	3681m 80m		610-621				
		1=21					72°30.208'N	150°30.085'W							
				ADCP											
		3=19													heading 350

Cast type:
BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
DN = down/no stop

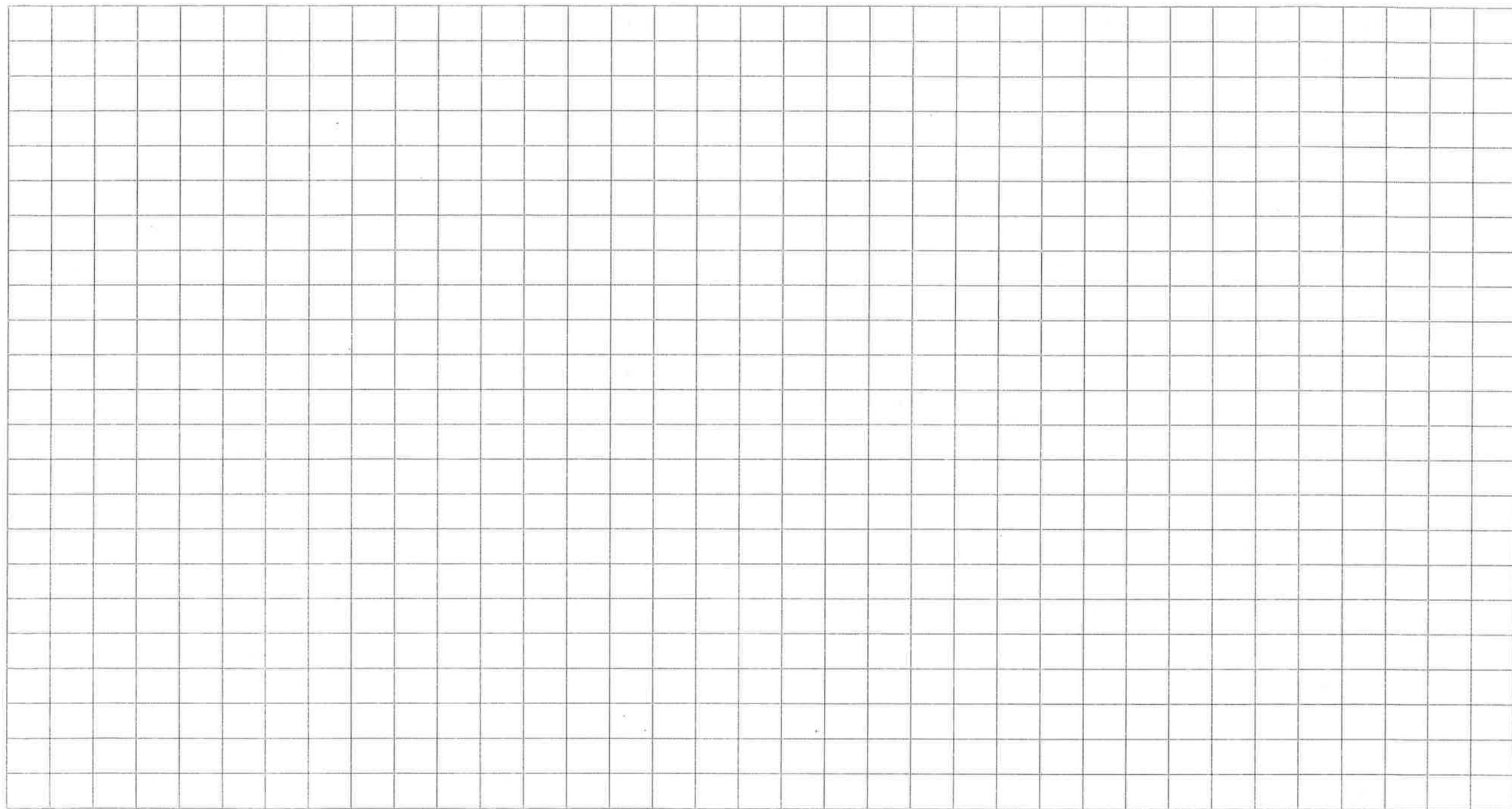
Time Code
BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc

42



DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month August				Year 2007				Ship LOUIS ST-LAURENT				Cruise ID 2007-20			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
				FORUDEC											
				ADCP						700					? Lwhoi testing
				Test											) Foredeck ADCP
5	CB-2a	2=14	BE	ROS		34	72°30.628'N	150° 4.388'N	3682		622-645	24			stop 15 min @ bottom-15m
							72°30.893'N	150° 7.122'N							
		5=04					72°30.905'N	150° 8.431'N							
5	CB2	0743	BE	ROS	UN	35	72 59.92	149 58.73	3745		646-669	24	JE/ND/HD/EN	VV	no sonar, ice
		0903	BO				73 01.03	149 59.33		3737 ¹⁰					stuck under transd.??
		1014	EN				73 00.23	149 59.75							-no, sonar was disconnected for release test.
5	CB2	0756	BE	ADCP											
		1018	EN												
5	CB2	0830	BE	Net		Net 17	73°00.06	149° 55.1		100m					
		0838	BE	Net		Net 18	73°00.06	149° 55.1		100m					

Cast type:
BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
DN = down/no stop

Time Code
BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

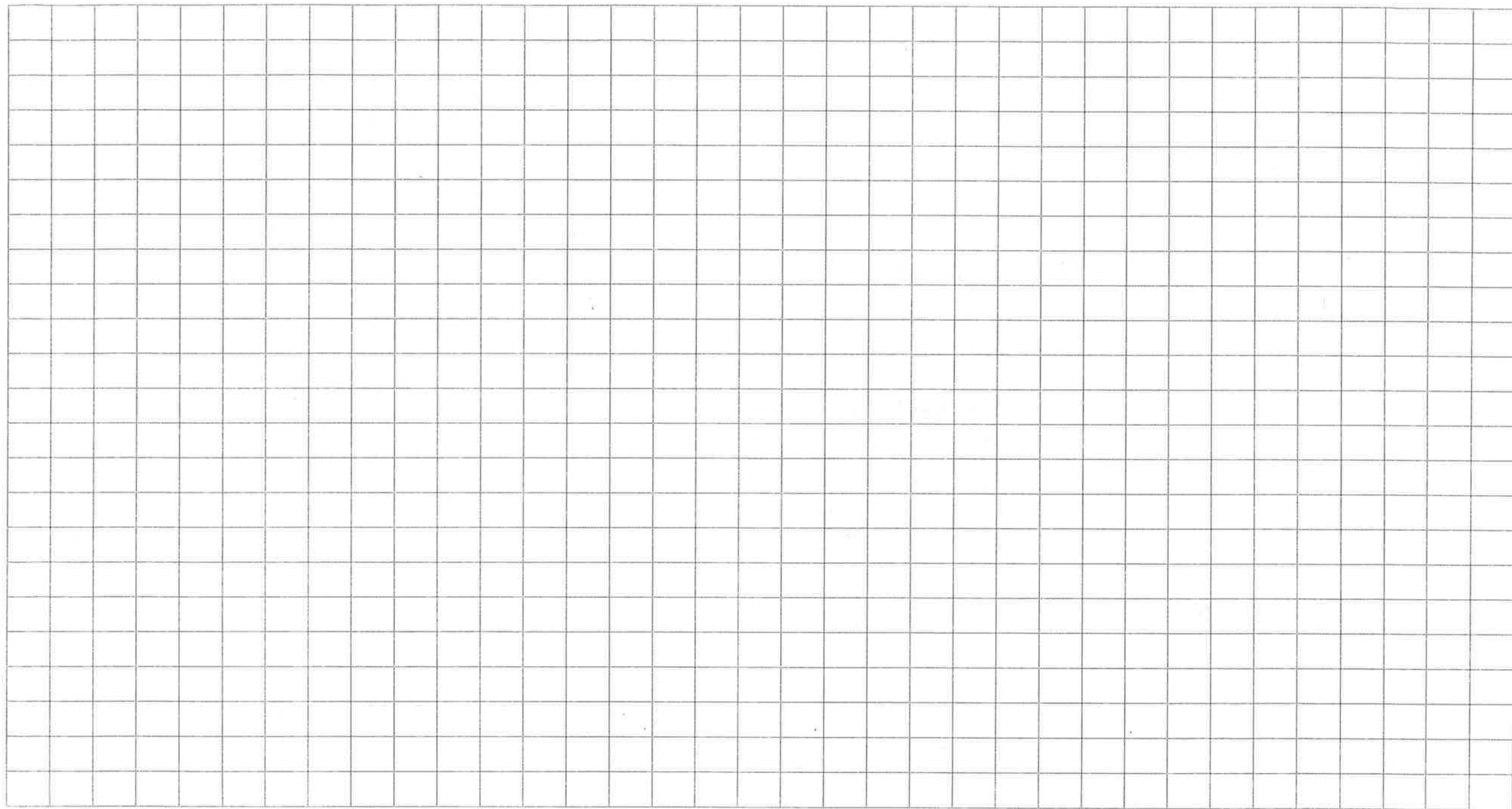
Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc

- strapped 2 ADCPs onto frame down to Toom

@ 2983 ice drags wire forward ~ 30° angle SNAPS free finally

Month				Year			Ship				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
5	CB-2	1018	BE	DRIF			73 00 24	149 59.76			227,228,229	3	HD		Danny McLean - to be - from 1st of hull
5	XCTD			XCTD-		XCTD-									
5	CB-3	1656	BE	ROS	UN	36	73 59.07	149 58.56	3815 ⁹		670-693	24	JE/MO/HD/KJ	✓✓	NMEA data problem - running without.
		18:17	BO				73° 59.141	150° 00.657	3815-19						Pumps off for 1st try down to 50m
		19:26	EN				730 59.309	150° 02.424							
5	CB-3	1701	BE	ADCP			73 59.07	149 58.56							
		19:30					73° 59.323	150° 2.585							296 - heading
5	CB-3	1742	EN	DRIF			73 59.14	149 59.91	3815		230,232,231		HD		Alfie, Todd, Helen
							73° 59.141	150° 00.657	3815-19						
				XCP											
				CTD											SBE19+ casts
				CTD											from boat
				CTD											
				CTD											



MonthAugust			Year2007			ShipLSSL			Cruise ID2007-20						
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
6	CAMP SMILEY	0100		Helicopter ops to Find Buoy site + Mark site											
6		0300													
6	CB-4			ADCP											
		0715													
6	CB-4	4:28		ROS	UN ¹⁰⁰ s	37	74°55.421	150°79.67	3820+9m		694-717	24	both buddies		
		5:41					74°55.492	150°8.072							
		0654					74 55.47	150 08.19							
6	CB-4	5:00		Nets		Net-19	74°55.45	150°08.06		100			Hm		
6	CB-4	5:15		Nets		Net-20	74°55.45	150°08.08		100			Hm		

Cast type:
BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
DN = down/no stop

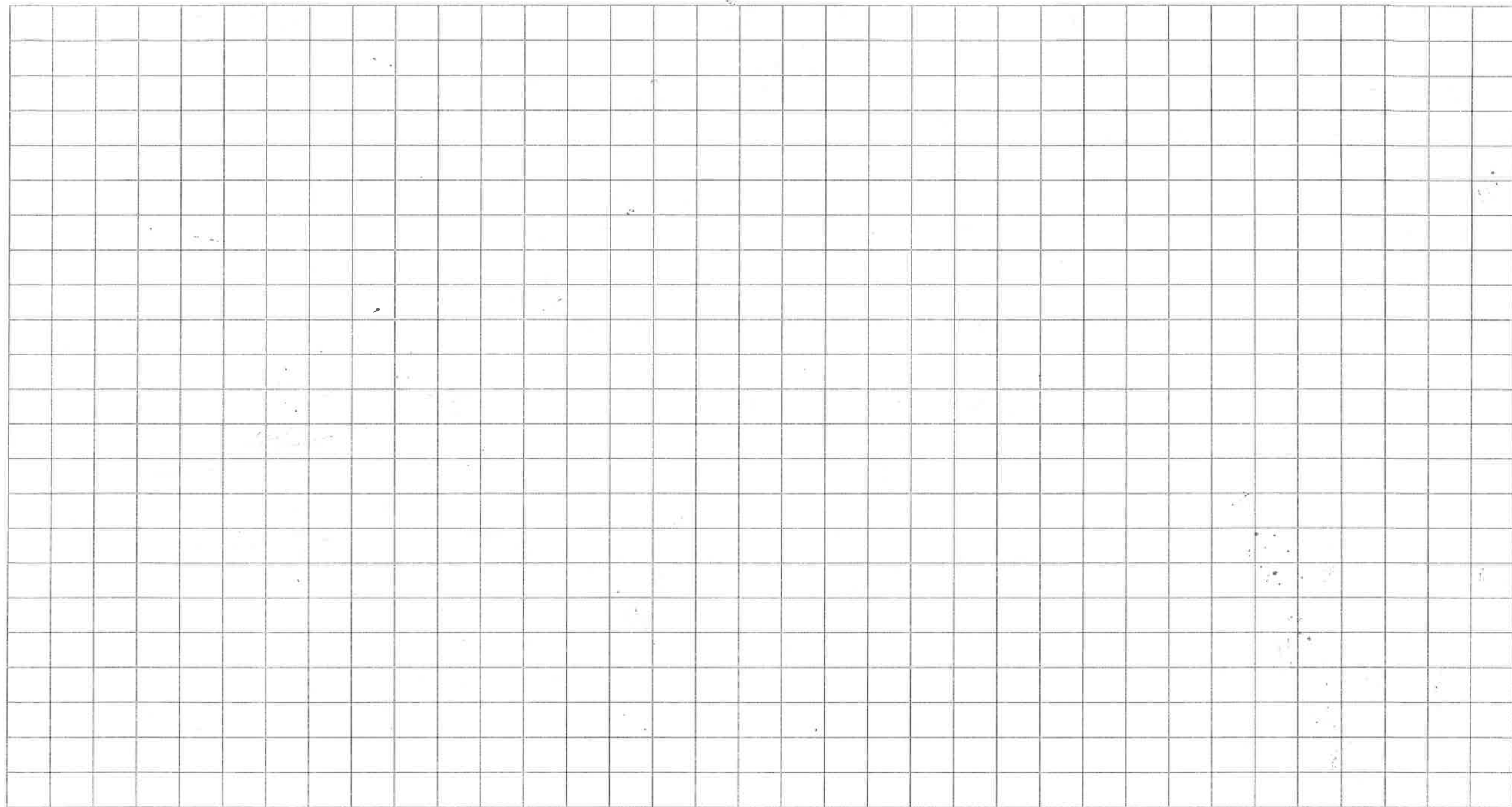
Time Code
BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc

48



INSTITUTE OF OCEAN SCIENCES

Transmissometer to be cleaned for each cast, do not use Ammonia products

spigots on bottles 5 & 21 very sticky, replaced with new ones.
↳ Bottle 24 appeared not to fire first time, but was triggered at surface

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month August				Year 2007			Ship LOUIS ST-LAURENT				Cruise ID 2007-20				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
			BE	XCTD											Upper 200m very odd.
			BE	XCTD											
7	RS-6	0812	BE	ROS	UN	40	75 30.82	155 16.04	3839 ^{tg}		751-773	24	JE/MD/HD/RN	vv	no luck getting clear
		0931	BO				75 30.71	155 15 48		3830					spot on first try -
		1043	EN				75 30.63	155 15 24							awkward ice
7	RS-6	0825	BE	ADCP			75 30.76	155 16.25	3839 ^{tg}						
		1019	EN				75 30 68	155 15 24							
7	RS-6	931		DRIF			75°30	155° 15			236-238			HD	Bonita bottles
7	RS-6	933		DRIF			75° 30	155° 15			10-15			HD	with orange log 1 people los less 20 bottles
7	RS-4	1332	BE	ROS	UN	41	75 36.91	156 03.43	2348 ^{tg}		775-798	24	JE/MD/HD/RN	vv	
		1422	BO				75 36.94	156 03.25		2330					
			EN												

Cast type:
BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
DN = down/no stop

Time Code
BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

2° ~~X~~ miss cut out at 230m and come back at 900m.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year			Ship					Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments	
7	RS-4	1342	BE	ADCP			75 36.89	156 03.43	2340							
		1510	EN				75 37.03	156 03.37								
7	RS-4	1442	BE	Net		Net-21	75°37.0	156°03.3		100			As		↓ abundance	V. clear H ₂ O!
7	RS-4	1500	BE	Net		Net-22	"	"		100						
7	~RS-4	16:19		DRIF			75°36.5	156°37.0			239,240,243				Jan Wrohan	sweet rotation
7	RS-1	1726	BE	ROS	US	42	75 44.81	157 05.80	981 ⁺⁹		799-821	23	Je/MD/HD/AN	✓✓	Prod/TSS	
		1747	BO							304						
			EN				75°44.915	157°05.840								
7	RS-1	1725	BE	ADCP			75 44.81	157. 05.80								
			EN				75°44.938	157 5.829								274
7	RS-1	20:24	BE	ROS	UN	43	75°44.643	157° 5.755	981+9		822-844	23			NMEA data does	
		21:05	BO				75°44.643	157° 5.477		971					not come	
		21:27	EN				75°44.650	157° 5.306	991+9							

Cast type:
BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
DN = down/no stop

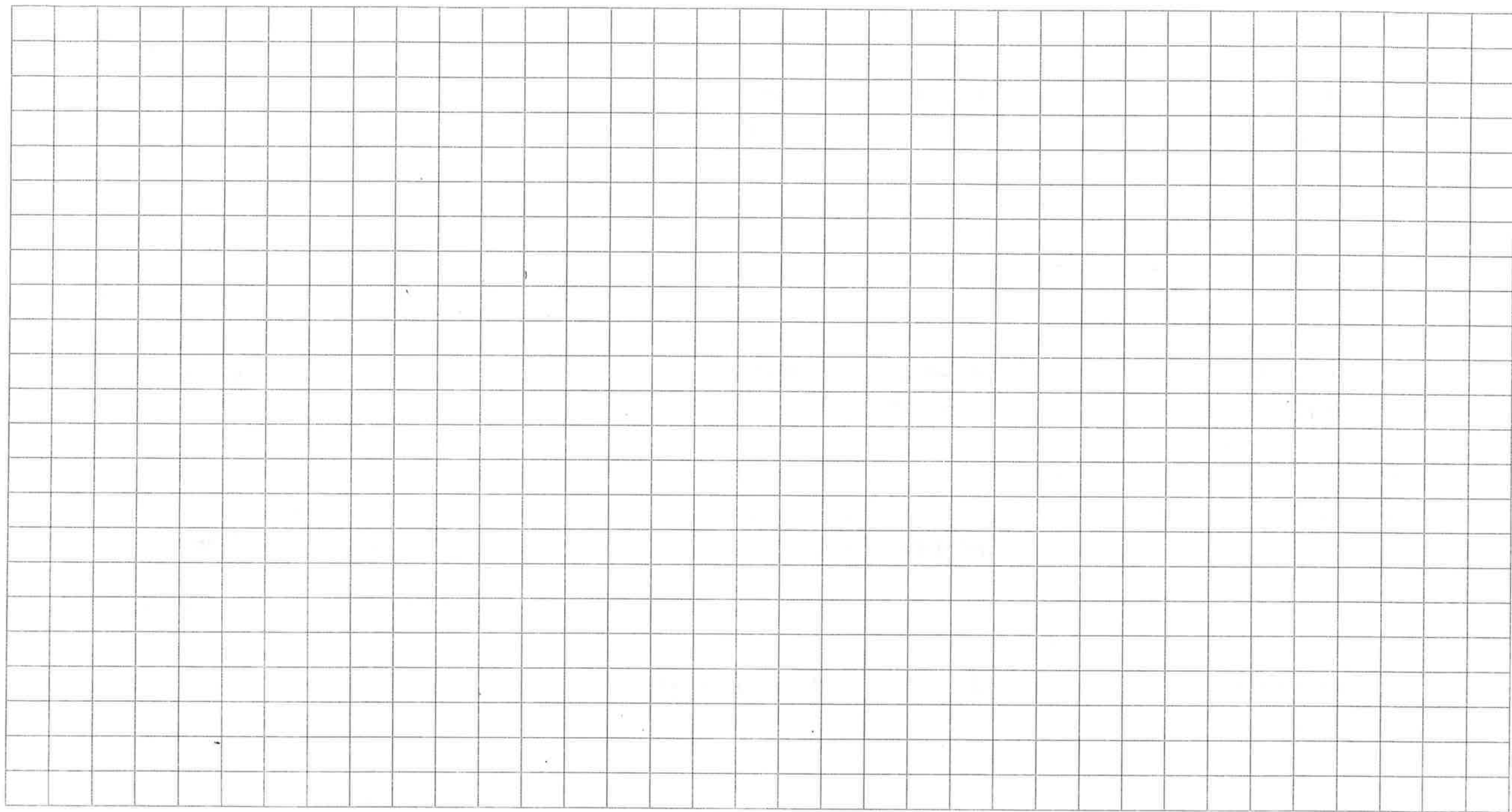
Time Code
BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc

54



DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month AUGUST				Year 2007			Ship LOUIS ST-LAURENT				Cruise ID 2007-20				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
7	RS-2	23:37	BE	ROS	US	44	75°39.912	156°17.989'W	1452+9m		845-856	12			RNA Cast
		23:55	BO				75°39.918	156°18.210'W		1000m					NO NMEA Data
8		0:23	EN				75°39.965'N	156°17.966'W	1437+9m						
7	RS-2	23:30		ADCP			75°39.960'N	156°17.809'W							heading 292 Tr
8							75°39.935	156°17.982'W							3.572 Right
															heading 57.7
8	RS-2	1:08	BE	ROS	UN	45	75°39.989	156°18.057'W	1435+9m		857-880	24			Gechem Cast
		1:40	BO				75°40.008	156°18.133'W		1406m					NO NMEA Data
8		2:12	EN				75°40.087	156°18.447'W	1412+9m						
8	CB-5	0920	BE	ROS	UN	46	75 11.98	153 17.30	3838 ¹⁰¹		881-898	18	JE/MD/HD/EN	✓✓	South of actual
		0947	BO				75 11.93	153 17.21		1001					CB-5 -
		1006	EN				75 11.94	153 17.23							No NMEA - was OK for
															a while & then froze,
															none at all when restarted.
															-OK after cast.
8		1104		Swap out deck unit				11 + Ser # 0649							
				Swap in Ser # 0680											

Cast type:

BOT = bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD

USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

US = up/stop
 UN = up/no stop
 DN = down/no stop

Time Code

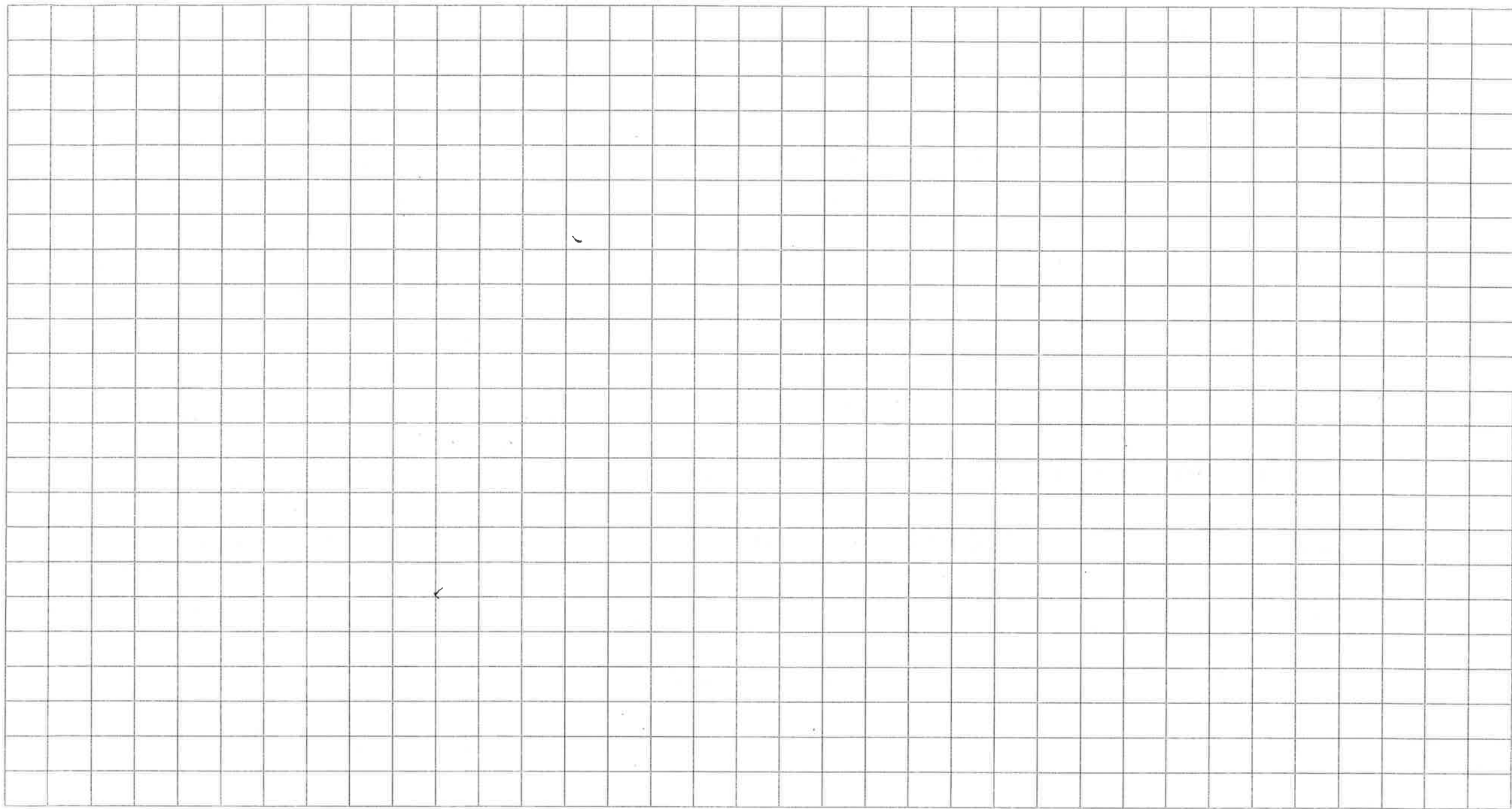
BE = beginning time of cast
 BO = bottom time of cast
 EN = end time of cast

DE = deployment time

MR = messenger release time
 RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc



DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month AUGUST			Year 2007				Ship LOUIS ST LAURENT				Cruise ID 2007 20				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
9	XCTD -		BE	XCTD		XCTD -									
9	CB-7	0932	BE		UN	47	75 59.09	149 57 42	3820 ⁺⁹		899-922	24	JE/mc	✓✓	
		1050	BO				75 59.18	149 55.76		3819 ⁺⁹					
		1200	EN				75 59.16	149 54.37							
9	CB-7	0939	BE	ADCP			75 59.11	149 57.20	3820 ⁺⁹						
		1154	EN				75 59.16	149 54.46							
9	CB-7	12:06		DRIF			75° 59.2	149° 54.5			247 - 249				Mike Dempsey Rich Nelson
9	XCTD -	1512	BE	XCTD		XCTD -	76°29.874	150°00.314	3828						
9	CB-8	18:23	BE	ROS	UN	48	76°59.982'N	150°00.066'W	3819+9m		923-946	24			after waiting 3 min at 5m, do not come up to surface. due to Tie floa.
		19:43	BO				77°00.074'N	149°58.769'W		3816					
			EN				77°00.084'N	149°57.394'W	3817+9m						
9	ADCP		BE	ADCP					3819+9m						Not put in due to tie
			EN												

Cast type:
BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
DN = down/no stop

Time Code
BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc

[illegible]

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year			Ship					Cruise ID			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
9	CB-8			Net		N(23)	77°00.05	149°58.25					HM		ICE D UP.
	CB-8	2145		Net		N(23)	77°00.1	149°58.3		100			"		
	CB-8	2200		Net		N(24)	77°00.1	149°58.3		100			"		
	XCTD														
10	CB-9	3:54	BE	ADCP			77°55.960'N	149°50.116'W	3816+9m						heading 105
10	CB-9	3:59	BE	ROS	US	49	77°56.005'	149°49.910	3817+9m		947-950	4			for Productivity
										5m					RNA/DNA
		4:08	EN				77°56.044'N	149°49.742	3816+9m						Scan start = 2900
10	CB-9	4:15	BE	ROS	US	50	77°56.081'N	149°49.570'	3820+9m		951-972	22			for Productivity and
		4:39					77°56.202	149°49.121'		800m					RNA/DNA
		5:09	EN				77°56.298'N	149°48.464'W	3817m						
	— ADCP tests on foredeck —														

Cast type:
BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
DN = down/no stop

Time Code
BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

A full-page sheet of white graph paper featuring a uniform grid of thin black lines. The grid consists of small squares covering the entire area, with no margins or additional markings.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year			Ship					Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments	
							Latitude	Longitude								
10	CB-9	0555	BE	ROS	US	51	77 56.40	149 48.32	3817 ⁺⁹		973-996	24	JE/MD/HB/RN ^W		C5/I cast	
		0618	BO				77 56.46	149 47.84		1000						
		0642	EN				77 56.53	149 47.27								
10	CB-9	0720	BE	ROS	UN	52	77 56.61	149 46.30	3816 ⁺⁹		997-1020	24	JE/MD/HB/RN ^W			
		0837	BO				77 56.77	149 44.32		3813 ⁺⁸						
		0949	EN				77 56.88	149 42.76								
10	CB-9			Net		N(11)	77°56.7	149°45.4		100					for ABC crew.	
10	"	730		Net		N(25)	77°56.7	149°45.4		100						
10	"	745		Net		N(26)	77°56.7	149°45.4		100						
10	CB-9	1755		DRIF	BE		77°56.87	149°42.86			255-257	3	MD			
11	RN-6	4:05		ADCP	BE		78°21.278	152°36.898	3512+9m						heading 75.2	
		0630			EN		78 21.60	152 31.87		3542						

Cast type:

- BOT = bottle cast, no CTD
- CTD = CTD without Rosette
- ROS = Rosette plus CTD

USW = sea water loop

- MOR = mooring
- NET = net haul
- DRF = drifter

bottle firing method:

- US = up/stop
- UN = up/no stop
- DN = down/no stop

Time Code

- BE = beginning time of cast
- BO = bottom time of cast
- EN = end time of cast

DE = deployment time

- MR = messenger release time
- RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc

[illegible]

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

MonthAugust				Year2007			ShipLOUIS ST LAURENT				Cruise ID2007-20				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
11	RN-6	4:06	BE	ROS	UN	53	78°21.284	152°36.815	3508+9		1021-1044	24	MI stand Seent	?	
		5:12	BO				78°21.486	152°34.416	3433+9	3446					
		0625	EN				78 21.60	152 31.89							
11	RN-6	4:35		NET		N(27)	78°21.39	152°35.688		100			HM		
		4:47		Net		N(28)	78°21.43	152°35.352		100					
11	RN-6	0638	BE	DRIF			78 21.613	152 31.511			258,259,261				MIT
	RN-5			XCTD											
11	RN-4	0821	BE	ROS	UN	54	78 20.61	153 07.77	2564 ⁺⁹		1045-1068	24	JE/MD/HD/RN ^{vv}		late ADCP due to
		0924	BO				78 20.61	153 06.36		2614 ⁺¹⁰					ice.
		1013	EN				78 20.63	153 06.07							
11	RN-4	0914	BE	ADCP			78 20.59	153 06.50	2583 ⁺⁹						
		0925	EN				78 20.61	153 06.36							
11	RN-3	1056	BE	XCTD		XCTD-46	78 20.84	153 18.15	2361						

Cast type:

BOT = bottle cast, no CTD

CTD = CTD without Rosette

ROS = Rosette plus CTD

USW = sea water loop

MOR = mooring

NET = net haul

DRF = drifter

bottle firing method:

US = up/stop

UN = up/no stop

DN = down/no stop

Time Code

BE = beginning time of cast

BO = bottom time of cast

EN = end time of cast

DE = deployment time

MR = messenger release time

RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc

64

A full-page sheet of white graph paper with a light gray grid. The grid consists of small squares, approximately 1 cm by 1 cm each. There are 20 columns and 20 rows of squares. The grid covers most of the page, leaving a narrow margin at the top and bottom.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month AUGUST				Year 2007			Ship LOUIS ST-LAURENT				Cruise ID 2007-20				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
11	CB-10a2	1158	BE	ROS	US	55	78 20.49	153 29.37	1823 ⁺⁹		1069-1092	24	JE/MD/HD/RN✓		Cs/I cast
		1220	BO				78 20.61	153 29.28		1000					
		1244	EN				78 20.72	153 29.05							
11	CB-10a2	1350	BE	ROS	UN	56	78 21.06	153 28.12	1811 ⁺⁹		1093-1116	24	JE/MD/HD/ED/KO✓		
			BO							1800 ⁺⁹					on sloping bottom
		1519	EN				78 21.49	153 26.35							
11	CB-10a2	12:02		Net		N(29)	78°20.88	53°28.69		100			HD.		
		12:42		Net		N(30)	78°20.952	153°28.46		100					
11	CB10a2		BE	ADCP											
		1515	EN				7821.48	153 26.43							
11	CB10a2	1526	BE	Drif			78 21.52	153 26.23							
11	XCTD	16:10					78°20.93	153°46.557							

Cast type:
BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
DN = down/no stop

Time Code
BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc

66

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month AUGUST				Year 2007			Ship LOUIS ST LAURENT				Cruise ID 2007-20				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
11	CB10a	17:14	BE	ROS	UN/US	57	78°19.34	154°2.53	1016 ¹⁹		1117-1139	23	JE/MOR/N/MP/110		
		17:40	BO				78°19.38	154°2.06		1000 ¹⁹					
		18:12	EN				78°19.48	154°1.66							
11	CB10a	19:28	BE	ADCP			78°19.700	154°0.717							
		20:10					78°19.836	154°0.025							
11	CB10a	19:36	BE	ROS	UN	58	78°19.726'	154°0.689	1055 ¹⁹		1140-1163	24			for Geochem
		20:08	BO				78°19.836	154°0.443		1037					
		20:33					78°19.916	154°0.025	1070 ¹⁹						
11	CB10aa	21:43	BE	ROS	UN	59	78°20.245'N	154°19.355'	917+9m		1164-1186	23			
			BO							917					
		22:30	EN				78°20.467	154°18.581	915+9m						
				XCTD											

Cast type:
BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
DN = down/no stop

Time Code
BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc

66

[illegible]

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month			Year				Ship				Cruise ID				
August			2007				LOUIS ST-LAURENT				2007-20				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
12	CB116	1414	BE	ROS	US	60	79°59.33	150°0.65	3811+9		1187-1198	12			Productivity cast
			BO							107					
		1436	EN				79°59.39	150°0.33							
12	CB116	1526	BE	ROS	US	61	79°59.49	149°59.34	3811+9		1199-1221	23			
		1600	BO				79°59.54	149°58.63		1001					
		1632	EN				79°59.56	149°57.962							
									Polar Bear + cub seen during flight in same area				19:50 seal in water at the 79°54.971 150°9.386		
12	CB116	20:30	BE	ROS	UN	62	79°54.930'N	150°9.098'W	3813+9m		1222-1245	24			lost power 19:42 power back 20:26
							79°54.937	150°8.976	3813+9	3801					
							79°55.985	150°9.100	3813						primary transmissometer is very noisy.
13	XCTD	2:37		XCTD			79°30.01	150°5.23	3826	1100			M.I		

Cast type:
BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
DN = down/no stop

Time Code
BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc

Additional comments

Lost power to winch @ A-frame. Rosette right at surface! Bashed
by ice. Primary Transmissometer does not look good on downcast.
Better on upcast.